

Appl. No. 10/622,048
Reply Dated August 12, 2005
Reply to Office Action of June 28, 2005

Docket No. CM05154H
Customer No. 22917

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (previously presented) In a communication system comprising a plurality of access points and a mobile station, wherein the mobile station is currently associated with a first access point, a method comprising the steps of, at the first access point:
 - receiving a first transmission at a first signal quality from the mobile station;
 - receiving a second transmission that indicates a second signal quality at which a second access point is receiving transmissions from the mobile station;
 - comparing the first signal quality with the second signal quality; and
 - when the second signal quality is greater than the first signal quality, signaling the second access point to initiate a handoff with the mobile station, wherein the second access point responds by sending a disassociation message to the mobile station to disassociate with the first access point, wherein the disassociation message is addressed as if it originated from the first access point.
2. (original) The method of claim 1 further comprising the step of transmitting to the second access point any buffered packets destined to the mobile station.
3. (original) The method of claim 1 wherein the second transmission is received from the second access point.
4. (original) The method of claim 1 further comprising the step of receiving a third transmission that indicates a third signal quality at which the mobile station is receiving transmissions from the second access point.
5. (previously presented) The method of claim 4 further comprising signaling that is performed when the third signal quality exceeds a threshold.

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6. (original) The method of claim 4 wherein the third transmission further indicates a fourth signal quality at which the mobile station is receiving transmissions from the first access point.
7. (original) The method of claim 6 wherein the step of signaling is performed when the third signal quality is greater than the fourth signal quality.
8. (original) The method of claim 4 wherein the third transmission is received from the mobile station.
9. (withdrawn ~~In a communication system comprising a plurality of access points and a mobile station, wherein the mobile station is currently associated with a first access point, a method comprising the steps of, at the first access point:~~
~~—receiving a first transmission at a first signal quality from the mobile station;~~
~~—receiving a second transmission that indicates a second signal quality at which a second access point is receiving transmissions from the mobile station;~~
~~—comparing the first signal quality with the second signal quality; and~~
~~—when the second signal quality is greater than the first signal quality, transmitting a disassociation message to the mobile station.~~
10. (withdrawn) ~~The method of claim 9 further comprising the step of receiving a third transmission that indicates a third signal quality at which the mobile station is receiving transmissions from the second access point.~~
11. (withdrawn) ~~The method of claim 10 wherein the step of transmitting is performed when the third signal quality exceeds a predetermined threshold.~~

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12. (previously presented) The method of claim 4 wherein the second transmission is received from the second access point, and wherein the third transmission is received from the mobile station.

13. (previously presented) In a communication system comprising a plurality of access points and a mobile station, wherein the mobile station is currently associated with a first access point, a method comprising the steps of, at the first access point:

receiving at least one transmission that indicates a first signal quality at which the mobile station is receiving transmissions from the first access point, a second signal quality at which the mobile station is receiving transmissions from a second access point, and a third signal quality at which the second access point is receiving transmissions from the mobile station;

comparing the first signal quality with the second signal quality;

comparing the third signal quality against a threshold; and

when the second signal quality is greater than the first signal quality and when the third signal quality exceeds the threshold, signaling the second access point to initiate a handoff with the mobile station, wherein the second access point responds by sending a disassociation message to the mobile station to disassociate with the first access point, wherein the disassociation message is addressed as if it originated from the first access point.

14. (original) The method of claim 13 wherein the first signal quality and the second signal quality are received via at least a first transmission from the mobile station, and the third signal quality is received via a second transmission from the second access point.

15. (previously presented) In a communication system comprising a plurality of access points and a mobile station, wherein the mobile station is currently associated with a first access point, a method comprising the steps of, at a second access point:

receiving a transmission at a given signal quality from the mobile station;

signaling the first access point with the given signal quality in which the transmission was received from the mobile station when the given signal quality exceeds a predetermined threshold;

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sending a transmission to the mobile station to disassociate with the first access point
when a handoff trigger is received within a predetermined time period from the first access point;
and

transmitting a disassociation message to the mobile station, wherein the disassociation
message is addressed as if it originated from the first access point.

16. (original) The method of claim 15 further comprising the step of increasing the
predetermined threshold when the handoff trigger is not received from the first access point
within the predetermined time period.

17. (original) The method of claim 15 further comprising the step of transmitting a message
to the mobile station to disassociate from the first access point.

18. (withdrawn) ~~The method of claim 15 further comprising the step of transmitting a
disassociation message to the mobile station, wherein the disassociation message is addressed as
if it originated from the first access point.~~

19. (original) The method of claim 15 further comprising the step of signaling the first
access point to forward any buffered packets destined for the mobile station after the step of
transmitting.